



CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory
NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005

Job No.: CTCE/BBMP/W.No.05/KRIDL/STEEL/2014-15

15.06.2014



TEST REPORT ON REINFORCEMENT STEEL

Client : Asst. Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Agency : Technical Manager, KRIDL, Bangalore.

Name of the Work : Improvements to Roads and Drains at Chokkanahalli Circle to Nanjareddys House in Ward NO.05, BBMP, Bangalore.

Reference : AEE/BTP/371/2014-15 Dated: 13.06.2014

Date of Test : 15.06.2014

Technical Reference : IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm ²	Tensile strength (Ultimate stress) N/mm ²	Elongation percent gauge length		
1	12	0.89	515	558	13.40	O.K	O.K

Note:

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- ⇒ The results indicated above are based on the tests carried out on the samples received in the laboratory.
- ⇒ Any Query regarding the report must be reported within 15 days from the date of testing.



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19.07.2014

TEST REPORT ON CONCRETE CUBES

Client : **Asst. Executive Engineer**, Byatarayanapura Sub Division, BBMP, Bangalore.

Agency : **Technical Manager**, KRIDL, Bangalore.

Name of the work : Improvements to Roads and Drains at Chokkanahalli Circle to Nanjareddys House in Ward NO.05, BBMP, Bangalore.

Reference : AEE/BTP/371/2014-15 Dated: 13.06.2014

Sample ID : Drain Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm²

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M₂₀

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	21.06.2014	19.07.2014	8.175	510.2	22.68
2	21.06.2014	19.07.2014	8.235	515.6	22.92
3	21.06.2014	19.07.2014	8.355	525.4	23.35

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02.07.2014

GRADATION FOR WMM MORTH TABLE-400-11

Client : Asst. Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Agency : Technical Manager, KRIDL, Bangalore.
Name of Work : Improvements to Roads and Drains at Chokkanahalli Circle to Nanjareddys House in Ward NO.05, BBMP, Bangalore.
Reference : AEE/BTP/371/2014-15 Dated: 13.06.2014
Date of Testing : 02.07.2014
Material : WMM
Sample Location : WMM Mix Plant

Oven Dry Wt (gm): 25000

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Spec.Limits
53	0	0	0	100	100
45	970	970	3.9	96.1	95-100
22.4	5510	6480	25.9	74.1	60-80
11.2	5980	12460	49.8	50.2	40-60
4.75	5045	17505	70.0	30.0	25-40
2.36	2215	19720	78.9	21.1	15-30
0.600	2585	22305	89.2	10.8	8-22
0.075	2210	24515	98.1	1.9	0-8

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16.07.2014

BITUMEN CONTENT AND GRADATION DETERMINATION OF SEMI DENSE BITUMINOUS CONCRETE MIX

As per IS2386 and IRC:SP:11-1984

CLIENT	Asst. Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
AGENCY	Technical Manager, KRIDL, Bangalore.
NAME OF THE WORK	Improvements to Roads and Drains at Chokkanahalli Circle to Nanjareddys House in Ward NO.05, BBMP, Bangalore.
REFERENCE	AEE/BTP/371/2014-15 Dated: 13.06.2014
SAMPLE I/D	Roads and Drains at Chokkanahalli Circle to Nanjareddys House in Ward No.05.
DATE OF TESTING	16.07.2014



BITUMEN CONTENT DETERMINATION

Description	Trail 1	Trail 2
1. Weight of Mixture before Test, g	500	500
2. Weight of Mixture after Test, g	474.5	475
3. Weight of Asphalt and Mineral matter Extracted, g	-	-
4. Weight of Mineral Matter, g.	-	-
5. Weight of Ash, g		
6. Weight of Bitumen Extracted, g. (corrected)	25.5	25.00
7. Bitumen content in %	5.10	5.00
8. Average	5.05	

GRADATION AFTER EXTRACTION

SIEVE SIZE	Trail 1				JOB MIX
mm	Weight Retained, gm	% Retained	% Cumulative Retained	% Passing	Gradation
13.2	0	0	0	100	100
9.5	34.21	7.21	7.21	92.79	90-100
4.75	251.3	52.96	60.17	39.83	35-51
2.36	48.2	10.16	70.33	29.67	24-39
1.18	42.15	8.88	79.21	20.79	15-30
0.3	29.56	6.23	85.44	14.56	9-19
0.075	40.25	8.48	93.92	6.08	3-8

SIEVE SIZE	Trail 2				JOB MIX
mm	Weight Retained, gm	% Retained	% Cumulative Retained	% Passing	Gradation
13.2	0	0	0	100	100
9.5	30.23	6.05	6.05	93.95	90-100
4.75	255.6	51.12	57.17	42.83	35-51
2.36	49.88	9.98	67.14	32.86	24-39
1.18	41.23	8.25	75.39	24.61	15-30
0.3	43.33	8.67	84.05	15.95	9-19
0.075	42.55	8.51	92.56	7.44	3-8

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